

**Nymphaea odorata - Nuphar lutea (ssp. pumila, variegata) Herbaceous Vegetation**

COMMON NAME	White Water Lily - Yellow Water Lily Herbaceous Vegetation
SYNONYM	Northern Water Lily Aquatic Wetland
PHYSIOGNOMIC CLASS	Herbaceous Vegetation (V)
PHYSIOGNOMIC SUBCLASS	Hydromorphic rooted vegetation (V.C)
PHYSIOGNOMIC GROUP	Temperate or subpolar hydromorphic rooted vegetation (V.C.2)
PHYSIOGNOMIC SUBGROUP	Natural/Semi-natural (V.C.2.N)
FORMATION	Permanently flooded temperate or subpolar hydromorphic rooted vegetation (V.C.2.N.a)
ALLIANCE	NUPHAR LUTEA - NYMPHAEA ODORATA PERMANENTLY FLOODED HERBACEOUS ALLIANCE

CLASSIFICATION CONFIDENCE LEVEL 3

USFWS WETLAND SYSTEM PALUSTRINE

## RANGE

**Isle Royale National Park**

This community is uncommon on interior lakes, widely scattered throughout the park.

**Globally**

This associations is found in Michigan, New York, Ontario, Manitoba, and possible Minnesota.

## ENVIRONMENTAL DESCRIPTION

**Isle Royale National Park**

This community occupies quiet waters of interior lakes. It may also occur on very protected, quiet bays of Lake Superior (however none were reported on Lake Superior in 1997 or 1998 surveys). The interior lakes occur at elevations ranging from 660 to 987 feet; substrates are permanently flooded mucks.

**Globally**

Stands occur in open, slow-moving water on lakes and streams, often less than 0.5 m deep. The substrate is variable, from muck to sedimentary peat (Harris *et al.* 1996).

## MOST ABUNDANT SPECIES

**Isle Royale National Park**Stratum

Floating-leaved

Species*Potamogeton* spp., *Nuphar lutea* ssp. *variegata*, *Nymphaea odorata***Globally**Stratum

Floating-leaved

Species*Nuphar lutea* ssp. *variegata*, *Nuphar lutea* ssp. *pumila*, *Nymphaea odorata*, *Potamogeton* spp.

## CHARACTERISTIC SPECIES

**Isle Royale National Park***Nuphar lutea* ssp. *variegata*, *Nymphaea odorata***Globally***Nuphar lutea* ssp. *variegata*, *Nuphar lutea* ssp. *pumila*, *Nymphaea odorata*, *Potamogeton* spp.

## VEGETATION DESCRIPTION

**Isle Royale National Park**

At Isle Royale NP, northern water lily aquatic wetland is a sparsely vegetated deepwater wetland dominated by floating-leaved and submerged aquatic vegetation. *Potamogeton* spp. are the most abundant herbs (average < 5% cover); *Nuphar lutea* ssp. *variegata* and *Nymphaea odorata* are the most abundant floating-leaved aquatic plants (each averages < 1 % cover).

**Globally**

Emergent vegetation cover is less than 25% and floating-leaved aquatics cover at least 25% of the surface. Typical dominants vary from stand to stand, but include *Nymphaea odorata*, *Nuphar lutea* ssp. *pumila*, and *Nuphar lutea* ssp. *variegata*. Other dominants may include *Brasenia schreberi* and *Potamogeton amplifolius*. A variety of emergent species can occur with this type (Harris *et al.* 1996).

**USGS-NPS Vegetation Mapping Program**  
**Isle Royale National Park**

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OTHER NOTEWORTHY SPECIES

***Isle Royale National Park***

Information not available.

CONSERVATION RANK G5.

DATABASE CODE CEGl002562

MAP UNITS 50

COMMENTS

REFERENCES